

EDUCATION

Ph.D. Candidate in Atmospheric and Oceanic Sciences, Princeton University	2013
Science, Technology and Environmental Policy Certificate, Woodrow Wilson School of Public and International Affairs	2012
M.A. in Atmospheric and Oceanic Sciences, Princeton University	2010
Summer School Certificate, Arctic Climate Change, Norwegian Institute for Air Research, Svalbard, Norway	2009
Summer School Certificate, Physics of the Climate System, Utrecht University Utrecht, the Netherlands	2008
B.S.E in Earth System Science and Engineering, University of Michigan	2008
Minor in Mathematics Magna Cum Laude, Dean's List and University Honors (2006-2008)	

RESEARCH EXPERIENCE

Graduate Student, AOS Program, Princeton University	
Advisor: Dr. V. Ramaswamy Ph.D. thesis: Studying the emission, transport and radiative impact of cooling and warming aerosols on climate using a global climate model	
Research Assistant, AOSS Department, University of Michigan	2007-2008
Advisor: Dr. Christiane Jablonowski Analyzed transformed eulerian mean using NCAR NCL	
Summer Intern, Physical Sciences Division, NOAA Earth System Research Lab	2007
Advisor: Taneil Uttal Designed an automated method to calculate HYSPLIT back-trajectories for International Polar Year project IASOA	
Research Assistant, AOSS, University of Michigan	2006-2007
Advisor: Dr. Mary Anne Carroll Statistically analyzed the climatology of northern Michigan using tropospheric ozone as a proxy for pollution, in order to determine pollution exposure	
Summer REU Participant, Biosphere-Atmosphere Studies in a Changing Global Environment, University of Michigan Biological Station	2006-2007
Advisor: Dr. Mary Anne Carroll Studied climatology of UMBS by calculating back-trajectories from 1999-2005; compared flow patterns with net ecosystem exchange, vapor pressure deficit, soil moisture and tropospheric ozone levels	
Summer Field Researcher in Greenland, AOSS, University of Michigan	2006
Advisors: Dr. Perry Samson and Dr. Robert Clauer Employed two instruments in Kangerlussuaq, Kellyville and Summit, Greenland; analyzed data; created a video from footage to disseminate experience to public	
Research Assistant, Undergraduate Research Opportunity Program, University of Michigan	2005-2006
Advisor: Dr. Daniel C. Fisher Casted models of ice age mastodon skeletons; pieced together excavated tusks	

PROFESSIONAL EXPERIENCE

Scientific Illustrator, Princeton University Develop schematics for lab groups in Chemical and Biological Engineering	2012—
Scientific Illustrator, Weather Underground, www.wunderground.com Simplify complex weather and climate processes in diagrams and schematics to complement blogs and educate the public	2011—
Graphic Design Freelancer, Climate Central, www.climatecentral.org Simplify complex weather and climate processes in diagrams and schematics to complement articles and educate the public	2011—
Residential Graduate Student, Rockefeller College, Princeton University 2011-2012: Civic Engagement Coordinator—plan community service and philanthropic activities for undergrads 2010-2011: Academic Coordinator—planned résumé, internship, and thesis-writing workshops for freshmen and sophomores	2010—
Conference Organizer, IMAGINE a Sustainable World, Princeton University Head of Website and Advertisement Committees Coordinated a one-day sustainability conference for students and public with three panels of experts, two keynote speakers, and poster session	2009-2010
Weather Anchor, Newsfeed, WOLV TV, University of Michigan Broadcasted weather forecast on student-run television network <i>Chief meteorologist 2007-2008</i>	2006-2008

HONORS AND AWARDS

Award for Outstanding Poster Presentation, World Climate Research Programme	2011
Outstanding Student Poster Presentation, American Meteorological Society (AMS)	2011
NSF Graduate Research Fellowship	2009
AMS Industry/Government Graduate Fellowship, NOAA Climate Program Office	2008
James B. Angell Scholar, University of Michigan—2+ semesters of A's	2008
Outstanding Student Leader Award Honorable Mention, UM Office of Student Activities	2008
First Place Winner, UM Best Student Paper on Environmental Issues & Climate Change	2007
Weather Underground Inc. Scholarship	2007
Eliza Ann Roark Scholarship	2006
Marian Sarah Parker Scholarship—by invitation only	2006
NOAA Ernest F. Hollings Scholarship	2006

UNIVERSITY ACTIVITIES

Princeton Energy and Climate Scholars	2010
Princeton University AOS Program Faculty-Student Liaison	2009-2010
Princeton University Graduate Student Government Assembly	2009-2010
University of Michigan College of Engineering Undergrad Student Advisory Board	2007-2008

SCIENTIFIC SOCIETIES

Association of Polar Early Career Scientists
 Earth Science Women's Network
 American Meteorological Society and University of Michigan student chapter
 American Geophysical Union
 Order of Omega National Honor Society
 Delta Epsilon Iota Academic Honor Society
 Michigan Society of Undergraduate Earth System Scientists and Engineers, *President 2007-2008*

SKILLS

Programming: IDL, Matlab, C++, Mathematica, Maple, IGOR Pro, TCL, NCL

Visualization: IDL, Matlab, NCL, GrADS

Software: Photoshop, Illustrator, Dreamweaver, Microsoft Office, FinalCut Pro, Motion, Keynote

CONFERENCES

Princeton Graduate Student Symposium, Princeton, NJ—poster presentation	2011
WCRP Open Science Conference, Denver, CO—poster presentation	2011
90 th Annual AMS Meeting, Seattle, WA—poster presentation and AOS recruiter	2011
22 nd Montreal Protocol Meeting, Bangkok, Thailand—observer/interviewer	2010
89 th Annual AMS Meeting, Atlanta, GA—student attendee and AOS recruiter	2010
88 th Annual AMS Meeting, Phoenix, AZ—student attendee and AOS recruiter	2009
87 th Annual AMS Meeting, New Orleans, LA—student attendee	2008

PUBLICATIONS

Ocko, IB, V Ramaswamy, Offsetting climate responses to anthropogenic black carbon and sulfate aerosol direct radiative forcings, in prep for submission to *Geophysical Research Letters* (2012)

Roy-Mayhew, JD, IB Ocko, DL Mauzerall, Inequivalent emissions: How time horizons affect perceptions of short- and long-lived climate forcers, in prep (2012)

Ocko, IB, V Ramaswamy, PA Ginoux, Y Ming, LW Horowitz, Sensitivity of the aerosol direct radiative forcing offset to physical climate factors, in review, *Journal of Geophysical Research* (2012)

Bankuti, M, B Ellis, M Frades, D Kanter, J Losh, IB Ocko, J Roy-Mayhew, P Shevlin, C Sierawski, A Wasserman, J Zuckerman, D Mauzerall, Complements to carbon: Opportunities for near-term action on non-CO₂ climate forcers, Policy Report, Princeton University (2011)

SERVICE

Graduate School Information Seminar for Princeton MIRTHE summer interns—talk	2012
Book reviewer for <i>Science</i> journal	2012
Reviewer for <i>Atmospheric Research</i> journal	2011 —
Rutgers University Undergraduate Research Symposium—judge	2011
Graduate School Information Seminars for Rider University students—two talks	2010/2011
Graduate School Information Seminar for NOAA GFDL summer interns—talk	2009
Middle School Science Olympiad Workshop—volunteer	2008
Graduate School Information Seminar for University of Michigan students—talk	2008
Marian Sarah Parker Scholarship Orientation—inspirational talk	2008